



Environmental Leader Facility BORDEN CHEMICALS AND PLASTICS

Geismar, LA

Borden Chemicals and Plastics Operating Limited Partnership (BCP) is an organic chemical manufacturer with operations in Geismar and Addis, LA and in Illiopolis, IL. At its Geismar facility, BCP manufactures vinyl chloride monomer, polyvinyl chloride, ethylene dichloride, and anhydrous hydrogen chloride. Geismar also operates industrial utility facilities including cogeneration and the production of steam, clarified water, and demineralized water.

Pollution Prevention Highlights

- 1999 Initiated a "VOC Reduction Project" in the Acetylene Plant. The project eliminated 1,541 tons per year of volatile organic compounds (VOC's), including over 660 tons per year of benzene. Fifty tons per year of semi-volatile organic compounds (SVOC's) were also eliminated as a result of this project. These reductions were accomplished at a cost of over 20 million dollars.
- 1999 Installed a "chlorine destruct" system at the VCM-E plant, which eliminated approximately166 tons per year of chlorine and hydrogen chloride emissions.
- 1999 Installed emission control equipment for rail, truck, and barge loading. This eliminated over three tons per year of ammonia rail car loading emissions and over 71 tons per year of methanol barge and truck loading emissions.
- 1997 Replaced Dichlorodifluoromethane (a Class I refrigerant CFC 12) with 1,1,1,2-Tetrafluoroethane (HFC 134a), thus eliminating 21,000 pounds per year of TRI reportable releases.
- 1992 Began recycling used compressor oil by purification for return to the process. This has reduced generation of over 55,000 pounds of used oil.
- 1992 Installed a new granulation process for the production of urea resulting in improved product quality and reduced air related ammonia and urea emissions by over 800,000 pounds per year.
- 1991 Installed a sample collection and return system for on-site chlorine analyzers that allowed samples to be returned via a closed-loop system instead of being generated as waste. This system has resulted in the elimination of approximately 75,000 pounds of solid/hazardous waste since implementation.

Pollution Prevention Goals

WASTE STREAM	BASELINE YEAR	CURRENT YEAR QUANTITY	TARGET YEAR QUANTITY	COMMENTS
Naphthalene Solids	1998	2000	2002	Stripping of naphthalene in gas
(tons/yr)	19	8.76	4	phase, reducing generation of hazardous waste solids.
Wastewater (million gals/yr)	1998 250	2000 194	2003 0	Elimination of deep-well disposal of site wastewaster

Leadership Program Contact:

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